

mission 2021 was flown by [] on 9 July 1970. [] and "S" Band Radar. Duration of flight was eight hours. Take-off was made on schedule, however, the delay in receipt of the [] effected this unit as stated in report of mission 2020. No other problems were encountered to interfere with the preparation of launching this mission. 25X1 25X1 25X1

[] reported satisfactory operation of the camera equipment. However, post flight inspection revealed that one major malfunction occurred on this mission. The film looped and wound around the metering roller after 1028 cycles on the left oblique magazine. This happened on the last target of the mission. In addition, the exposure counter failed to operate during the entire mission on the right oblique camera. The malfeeding of film on the oblique magazines at the end of the mission has occurred on numerous occasions. This situation seems to be inherent in the operation of the magazine, but does not seem too serious as it never appears until the film is at the end of the spool and most of the time it is the trailer that is jammed. The exposure counter failure was determined to be due to the counter and not the magazine. Seven hundred and fifty feet of tracker film was exposed and processed on this mission. The film was not trackable due to undercast with the following exceptions: 25X1

- a. From 4949N 1427E to 4834N 2207E
- b. From 5256N 2945E to 5350N 2732E
- c. From 5056N 1937E to 4908N 1635E
- d. Sixty miles west of point November to 4953N 0707E.

Plotting time for this mission was two hours.

The electronics recorder seemed to be intermitten in operation several times during the flight for short periods of time.

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Ground pre-flight checks were normal but the clock signal on the span channel did not come on at take-off. This tone came on about one hour and fifteen minutes after take-off. A few radar signals were received during this time but many signals were received after the tone channel came on. The electronic portion of this recorder has been replaced until the trouble can be determined.

All other aspects of the mission were satisfactory.

The compilation of weather data for the [] report for missions 2020 and the weather statistical report to accompany the Commander's Mission report were being compiled at the same time the [] and [] were being plotted for missions 2023 and 2024. It is suggested that serious consideration be given to the deletion of the report "Documentation of Flights (Weather)". This information is very accurately covered in the [] which is dispatched much earlier than the Commander's Report. The time required to complete this Documentation of Flights (Weather) is requiring the weather staff to be on continuous duty preparing reports or preparing weather briefings twenty-four hours a day when operations run concurrently over more than one day. Any comments on the deletion of this study would be appreciated.

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DISTR:

Original - Headquarters

ATTACHMENTS:

- A - Documentation of Flights (Weather) A-2020 (TS#155330A)
- B - Documentation of Flights (Weather) A-2021 (TS#155330B)

25X1

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